

# Elementary Particles

An elementary particle does not consist of smaller subparticles.

		three generations of matter (fermions)			interactions / force carriers (bosons)	
		I	II	III		
<b>Quarks</b> <ul style="list-style-type: none"> <li>• half-integer spin</li> <li>• all 4 interactions</li> </ul>	mass	$\approx 2.2 \text{ MeV}/c^2$	$\approx 1.28 \text{ GeV}/c^2$	$\approx 173.1 \text{ GeV}/c^2$	0	$\approx 125.11 \text{ GeV}/c^2$
	charge	$\frac{2}{3}$	$\frac{2}{3}$	$\frac{2}{3}$	0	0
	spin	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	1	0
		<b>u</b> up	<b>c</b> charm	<b>t</b> top	<b>g</b> gluon	<b>H</b> higgs
<b>Fermions</b> ↑ <b>Quarks</b> ↓	mass	$\approx 4.7 \text{ MeV}/c^2$	$\approx 96 \text{ MeV}/c^2$	$\approx 4.18 \text{ GeV}/c^2$	0	0
	charge	$-\frac{1}{3}$	$-\frac{1}{3}$	$-\frac{1}{3}$	0	0
	spin	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	1	1
		<b>d</b> down	<b>s</b> strange	<b>b</b> bottom	<b>γ</b> photon	
<b>Leptons</b> <ul style="list-style-type: none"> <li>• half-integer spin</li> <li>• no strong interactions</li> </ul>	mass	$\approx 0.511 \text{ MeV}/c^2$	$\approx 205.66 \text{ MeV}/c^2$	$\approx 1.7768 \text{ GeV}/c^2$	0	$\approx 91.19 \text{ GeV}/c^2$
	charge	-1	-1	-1	0	1
	spin	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	1	1
		<b>e</b> electron	<b>μ</b> muon	<b>τ</b> tau	<b>Z</b> Z boson	
		<b>ν<sub>e</sub></b> electron neutrino	<b>ν<sub>μ</sub></b> muon neutrino	<b>ν<sub>τ</sub></b> tau neutrino	<b>W</b> W boson	

**Bosons**

- integer spin
- all 4 interactions

**GAUGE BOSONS**  
**VECTOR BOSONS**

**SCALAR BOSONS**

# Elementary Particles

**D Kirk**



## **Elementary Particles:**

## Whispering the Strategies of Language: An Mental Quest through **Elementary Particles**

In a digitally-driven earth wherever monitors reign supreme and instant interaction drowns out the subtleties of language, the profound techniques and psychological nuances concealed within words usually move unheard. Yet, situated within the pages of **Elementary Particles** a fascinating fictional prize sporting with natural thoughts, lies an exceptional quest waiting to be undertaken. Penned by a talented wordsmith, that wonderful opus encourages viewers on an introspective trip, delicately unraveling the veiled truths and profound influence resonating within ab muscles cloth of each and every word. Within the mental depths of this touching evaluation, we will embark upon a honest exploration of the book is key subjects, dissect their fascinating writing model, and fail to the strong resonance it evokes strong within the recesses of readers hearts.

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